

## CURRICULUM VITAE

### **Yadin B. David**

Ed.D., P.E., C.C.E., F.A.I.M.B.E., F.A.C.C.E.  
Biomedical Engineering Consultants L.L.C.  
1111 Hermann Drive, Suite 12B  
Houston, Texas 77004

Voice: (713) 522-6666 Fax: (713) 522-6686  
E-mail: [david@BiomedEng.com](mailto:david@BiomedEng.com) URL: [www.BiomedEng.com](http://www.BiomedEng.com)

March 31, 2016

#### **UNDERGRADUATE EDUCATION:**

- 1969-1972 "Technion" - Israel Institute of Technology Associate in Science  
Major: Electrical Engineering
- 1972-1974 West Virginia University, Morgantown, W. Virginia,  
B.Sc. Electrical Engineering

#### **GRADUATE EDUCATION:**

- 1974-1975 West Virginia University - M.Sc. Electrical Engineering -  
Focus in Biomedical Sciences
- 1979-1983 School of Graduate Studies at West Virginia University  
- Inter-Disciplinary Doctorate Program  
- Doctorate Education Psychology

#### **CERTIFICATION AND REGISTRATION:**

- 2004 - Certified in Clinical Engineering – Healthcare Technology Commission (HTC) –  
Certificate No. 118.
- 1999 - Fellow of the American Board of Forensic Engineering and Technology, The  
American College of Forensic Examiners Institute - ID No. 17785.
- 1989 - Certified Clinical Engineer (C.C.E.) – The International Certification Commission  
(ICC) – Certificate No. 400.
- 1985 - Registered Professional Engineer in Biomedical Engineering, (P.E.), State of  
Texas Registration – Certificate No. 91626.
- 1981 - 2008 International Health Care Safety Professional (C.H.S.P.), Board Executive Level. -  
Certificate No. 263.

**PROFESSIONAL EXPERIENCE:**

- 2008- Present Principal, Biomedical Engineering Consultants, L.L.C., Houston, Texas.
- 2016- Present Medical Bridges Advisory Council, member ([www.medicalbridges.org](http://www.medicalbridges.org)).
- 2015- Present Associate editor, IFMBE/International Journal of Clinical Engineering & Health Technology Assessment (CEHTA).
- 2014- Present Chairman, Device Good Manufacturing Practice Advisory Committee, Food and Drug Administration (FDA), Department of Health & Human Services, Silver Spring, Maryland.
- 2014- Present Judge, Medical Device Design Excellence Award, UBM Canon, [www.MDEAwards.com](http://www.MDEAwards.com).
- 2013-Present Chairman (and past Vice chairman), Health Technology Training Group (HTTG), International Union for Physical and Engineering Sciences in Medicine (IUPESM).
- 2011- Present Editorial Board Member, Journal on Health and Technology, Springer, New York, NY, USA.
- 2009 - 2016 Interim CEO, Canopy Edge, Inc., Houston, Texas.
- 2008-Present Adj. Asst. Professor, University of Texas, School of Public Health, Houston, Texas.
- 2008- Present Editorial Board advisor, Biomedical Safety & Standards, Philadelphia, Pennsylvania.
- 2006-Present Board member and past Chairman, Clinical Engineering Division, International Federation of Medical and Biological Engineering (IFMBE).
- 2002-Present Senior Biomedical Research Service Credentials Reviewer, Food and Drug Administration, Rockville, Maryland.
- 2003- 2012 Adj. Professor, Biomedical Engineering Program, Health Sciences Division, Tecnológico De Monterrey School of Biotechnology and Health, Mexico.
- 1993- 2008 Advisor, World Health Organization (WHO/PAHO) – Healthcare Infrastructure and Technology, Washington, DC.
- 1993-Present Consultant, General Hospital and Personal Use Devices Panel, Center for Devices and Radiological Health, Food and Drug Administration (FDA), Department of Health & Human Services, Rockville, Maryland.
- 1987-2010 Assistant Professor (Adj.), Department of Pediatrics, Baylor College of Medicine, Houston, Texas.

**PROFESSIONAL EXPERIENCE (CONT.):**

- 1987-2008 Director, Biomedical Engineering Department, Texas Children's Hospital, Houston, Texas.
- 1976-2008 Advisor, Biomedical Engineering Consultant, Houston, Texas.
- 2004-2007 Member, Advisory Board Mobile Aspects Corporation, Pittsburgh, Pennsylvania.
- 2004-2006 Judge, Medical Design Excellence Awards, Canon Communications, [www.MDEAwards.com](http://www.MDEAwards.com).
- 1998-2005 Advisor, ORBIS' International Program Advisory Council (IPAC).
- 1996-2005 President, Center for Telemedicine Law (CTL), Washington, D.C.
- 1987-2004 Director, Biomedical Engineering Department, Texas Children's Hospital, St. Luke's Episcopal Hospital and Texas Heart Institute, Houston, Texas.
- 1998-2001 Director, Center for TeleHealth, Texas Children's International, Houston, Texas.
- 1994 Consultant, Department of Health & Human Services, Food and Drug Administration (FDA), Neurological Devices, Washington, D.C.
- 1991-2000 Advisor, NASA Technology Applications Team, Biomedical Advisory Group, Houston, Texas.
- 1984-1999 Associate Professor (Adj.), University of Texas Health Sciences Center at Houston, Department of Anesthesiology, Houston, Texas.
- 1998 Advisor, Orthopedics and Rehabilitation Devices Advisory Panel, Food and Drug Administration (FDA), Rockville, Maryland.
- 1984-1986 Lecturer, Baylor College of Medicine, Department of Community Medicine, Houston, Texas.
- 1982-1987 Director, Biomedical Instrumentation Department, St. Luke's Episcopal Hospital/Texas Children's Hospital/Texas Heart Institute, Houston, Texas.
- 1979-1982 Research Assistant Professor, Department of Anesthesiology, West Virginia University School of Medicine, Morgantown, West Virginia.
- 1976-1982 Director, Biomedical Engineering Section, West Virginia University Hospital, Morgantown, West Virginia.
- 1976-1979 Research Instructor, Department of Anesthesia, West Virginia University Hospital, Morgantown, West Virginia.
- 1975-1976 Design Engineer, Rockwell International, Collins Radio Division, Cedar Rapids, Iowa.

**PROFESSIONAL EXPERIENCE (CONT.):**

- 1974-1975 Research Assistant (Part Time), W.V.U. Department of Physiology and Biophysics (American Heart Association Grant).
- 1974-1975 Fulfilled the M.Sc. Degree requirements – Animal Research Investigation of New Pacemaker Electrode Design with Dr. T. J. Tarnay, M.D. Division of Thoracic Surgery - W.V.U. School of Medicine.
- 1974-1975 Instructor, Electrical Engineering Department, W. Virginia University College of Engineering.
- 1973-1974 Orderly, Operating Room, West Virginia University (W.V.U.), Medical Center, Morgantown, West Virginia.
- 1969-1972 Senior Electrical Technician, Advanced Systems, Design, Testing and Simulation, "Armament Authority Development," Israel.

**HONORS AND AWARDS:**

- 2016- For contribution to the development of the profession worldwide and example for professional experience, Honorary Member of the Italian Clinical Engineers Association.
- 2014 - Distinguished Professional Achievement and Service, The Academy of Distinguished Alumni, Lane Dept. of Computer Science and Electrical Engineering, WVU, Morgantown, W.Va.
- 2013 - present Academic Biomedical Engineering program evaluator, ABET, Washington, D.C.
- 2013 - Distinguish Leadership Award for exceptional contribution to the clinical engineering profession in China.
- 1993 - present IEEE/EMBS Distinguished Lecturers.
- 2011 - American College of Clinical Engineering (ACCE) – Life Time Achievement Award
- 2011 - University of Pavia hospital – Clinical Engineering graduate program – program advisor
- 2011 - present Designated Ambassador – IEEE Public visibility program
- 2009 - 2011 Designated Technical expert – IEEE Public visibility program
- 2008 - American College of Clinical Engineering (ACCE)/Association for the Advancement of Medical Instrumentation (AAMI) - Robert L. Morris International Humanitarian Award – Recipient.
- 2008 - Health Data Management, the Nursing Information Technology Innovation Award, Honorable Mention
- 2007 - ECRI Institute Health Technology Management Award
- 2007 - Medical systems integration Award, HIMSS Industry affiliated
- 2006 - Texas Children's Hospital, Patient Safety Award from CEO/Mark Wallace
- 2006 - ECRI Institute Achievement Award – Customer Service program.
- 2004 - The Institute of Electrical and Electronics Engineers (IEEE), Senior Member.
- 2003 - Tec De Monterrey, School of Medicine, Mexico – Visiting Professor.
- 2002 - Chinese PLA Postgraduate Medical School - Visiting Professor.
- 2001 - Food and Drug Administration (FDA), Commissioner's Special Citation – Recognition Recipient.

- 2000 - American Board of Forensic Engineering and Technology - Diplomat.
- 1999 - American College of Forensic Examiners Institute – Awarded Fellow status.
- 1999 - American College of Clinical Engineering - Awarded Fellow status.
- 1992 - The American Institute of Medical and Biological Engineering (AIMBE) - Inducted Founding Fellow.
- 1975 - Kirkland Scholarship - Recipient.
- 1974 - Eta Kappa Nu Association - National Honorary Association of Electrical Engineering.
- 1973 - West Virginia University, Engineering Dean's Honor List.

### **PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS:**

Healthcare Technology Foundation (HTF) [www.thehtf.org](http://www.thehtf.org),

- President Emeritus – (2008-Present)
- Immediate Past President – (2006-2007)
- Founder, President – (2002-2006)

Biomedical Advisory Committee (BAC) – Chairman, (2003-2014)

National Fire Protection Association - (N.F.P.A.) - Technical Committee on:

- Health Care Facilities (NFPA-99) sections on:
  - Medical Gas Delivery Systems - Chairman (2002- 2008)
  - The Safe Use of Electrical Equipment (2) Medical Gases (1977 - 2010).
- Laser Safety Committee (NFPA-115) - Chairman - (1998-2008), member (2015-2016).

Association for the Advancement of Medical Instrumentation - (A.A.M.I.)

- Application of Quality Systems to Medical Device Data Systems Working Group (MDDS/QS) - Co- Chairman (2011-Present)
- Uniformed Terminology and Taxonomy Initiative - Chairman (2008-2012)
- Electro Magnetic Compatibility (EMC) Committee (1998-Present).
- Electrical Safety Committee (1995-Present).
- Education Committee (1985).

National Forensic Center Distinguished Expert (1987-Present).

American College of Clinical Engineering (ACCE)

- Healthcare Technology Foundation - President (2002-2006)
- Bylaws Review Committee - Chairman (2001)
- Elected Fellow (1999)
- Vision 2000 Task Force (1996)
- Nominations Committee Chairman (1993)
- Charter member (1990-Present)
- President (1990)

Biomedical Engineering Advisory Council - Texas A&M University,  
Charter Member, (1998-2008).

Journal of Medical Engineering and Physics - Elsevier Science -  
Editorial Review Board (1995-2008).

**PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS (CONT.):**

National Recall Alert Center – Charter Member (1991-2008).

National Society of Professional Engineers (N.S.P.E.) - Member (1985-2006).

Center for Telemedicine Law (CTL) - Charter member, President (1996-2004).

Engineering in Medicine and Biology Society - (E.M.B.S.):

- Annual International Conference - Technical Program Committee (2002-2009).
- Technical Committee on Clinical Engineering - Chairman (1982-86, 1990-94, 2002-06).
- Co - Chairman of the Pittsburgh Section (1982 - 1983).

American Institute of Biological Sciences (AIBS) and the United States Army Research and Material Command (USAMRMC), Peer Review Panel on the “Defense Women’s Health (DWH) Research Programs,” Baltimore, Maryland, - Scientific Grant Reviewer (1999).

American Society for Healthcare Engineering (ASHE)

- TeleHealth Committee (1996-2000).
- Clinical Engineering and Technology Management Committee (1993-1997).

International Federation of Medical and Biological Engineering (IFMBE)

- Clinical Engineering division chairman (2008-2011)
- Clinical Engineering Division Board member (2008-present)

International Union for Physical and Engineering Sciences in Medicine (IUPESM)

- Health Technology Task Group (2013- present)

United States - Israel Science and Technology Commission, BiNational Committee (1996-2000).

Association of Field Service Managers International - (A.F.S.M.) (1995-2001).

Texas State Technical Institute - Biomedical Technology Program Adviser (1994).

American Heart Association-Texas Affiliate-Research Allocations and Advisory Committee-Grant Application Reviewer (1993-1996).

The Institute of Electrical and Electronics Engineers (IEEE):

- Technology policy Committee, I.E.E.E./TAB, Washington, DC (1993-1995).
  - Technical Committee - NFPA 99 - Health Care Facilities.
- Standards Coordinating Committee Panel #18.
- Accreditation Board for Engineering Technology, Evaluator (ABET) (1988-1995).
  - Electrical/electronics, Biomedical and Instrumentation Engineering Technology
- Delegate - Health Care Engineering Policy Committee (HCEPC) (1986-1995).
  - Chairman (1993-1995).
- National Fire Protection Association - Delegate (1977-1995).

American Institute of Medical and Biological Engineering (AIMBE) - Founding Fellow (1992).

- Member (1992-present)

**PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS (CONT.):**

University of Houston, College of Architecture - The Health Environment Institute Advisory Board (1988-1995).

Joint Commission on Accreditation of Healthcare Organization (JCAHO)  
- The Committee on Health Care Safety (1987-1993).

Society of Critical Care Medicine (S.C.C.M.) (1986-1997).

International Certification Commission for Clinical Engineering and Biomedical Technology (1986-1990).

Alliance for Engineering in Medicine and Biology, (A.E.M.B.)  
- Education Committee Chairman (1986).  
- Project Advisory Committee - Chairman (1984-1985).

American Society for Testing and Materials - (A.S.T.M.)  
- Anesthetic & Respiratory Equipment F-29 - Committee Member (1983-1995).

Houston Community College (H.C.C.) - Program Advisor Electronics Technology (1982-1993).

West Virginia University (College of Engineering and School of Medicine)  
- The Bioengineering Graduate Program Committee - Member (1981-1982).

**INSTITUTIONAL COMMITTEES**

Chairman:

Facility and Equipment Safety Subcommittee (2000-2008, 1992-98).  
Medical Technology Evaluation Committee (1989-2008).  
Equipment and Facilities Committee (1998).  
Television and Audiovisual Committee (1987-1995).  
Advisory Committee for the Administrative and Management Forum (1986-1987).

Co-Chairman

Cardiac Care Unit Monitoring Equipment Committee (1987-1988).

Member:

Equipment and Facilities Committee (1999-2008).  
Hospital Information Systems Advisory Committee (1997- 2008, 1988-1990).  
Capital Budget Committee (1991-2008).  
Cardiopulmonary Resuscitation Committee (1991-2004).  
Product Standardization and Utilization Committee (1990-2008).  
Safety Committee (1982-2008).  
Quality Assurance Committee (1989-1995).  
Cardiac Catheterization Laboratory Construction Committee (1985-1989).  
Laser Committee (1981-2004).  
Risk Management Committee (1986-1989).

**PUBLICATIONS AND PRESENTATIONS:**

Y. David: "*Reframing Product Life Cycle for Medical Devices*" Chapter 1, Managing Medical Devices Within a Regulatory Framework, Elsevier Inc. Publishing, in print.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- M. Funk, J.T. Clark, Y. David: “Clinical Alarms Management”, Seminar chair, ”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. \*
- Y. David: “Mobile Technology; Implementation, Barriers and Policy Issues - Industrialized Areas”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. \*
- Y. David, C. Borrás, F. Hosea, D. Dreps: “Critical role of sustaining technology and utilities in healthcare Institutions Facing Disaster Through Development of an International Center for Information and Training of Health Technology Managers on Disaster Preparedness”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015.\*
- Y. David: “Current State of Clinical Engineering Education and Career”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. \*
- Y. David, S. Eagles, K. Fuchs, T. Cohen, P. Raymond, T. Cooper: “Managing Risks of Integrated Systems and Networks in Healthcare Environments”, AAMI Annual Conference and Expo, Denver, CO, June 2015.
- Y. David: “Are we Ready for Career in Biomedical Engineering?”, The 29<sup>th</sup> Annual Academy of Chemical Engineers, WVU College of Engineering and Mineral Resources, April 2015.
- Y. David, C. Boras, F. Hosea, D. Dreps: “Promote Awareness of the Critical Role of Sustaining Technology and Utilities in Healthcare Institutions facing Disaster by Exploring the Development and Establishment of an International Center for Information and Training of Health Technology Managers on Disaster Preparedness”, Nineteenth World Congress on Disaster and Emergency Medicine proceedings, Cambridge Press, Pre Hospital and Disaster Medicine, Vol. 30, Cape Town, South Africa, April 21-24, 2015.\*
- Y. David: “After Struggling for a Generation to Climb the Ramp – Is TeleHealth on the Highway Yet?”, Colorado HIMSS 2014 Education Day, Denver, CO, November 7, 2014.\*
- Y. David: “Current Status Quo of Clinical Engineering Education and Suggestions”, the First International Congress of Clinical Engineering & Information Technology, Wuxi, China, September 24-26, 2014.\*
- C. Borrás, S.J. Calil, Y. David, N.E. Pallikarakis, M.F. Secca: “Radiological Equipment Maintenance Issues”, Sixth European Conference of the International Federation for Medical and Biological Engineering, IFMBE Proceedings, Vol. 45, pp. 926, Dubrovnik, Croatia, Sept. 7-11, 2014.\*

\* Peer Review Paper



**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David, C. Boras, F. Hosea: “Disaster Preparedness Program for Health Facility’s Technology Managers”, Sixth European Conference of the International Federation for Medical and Biological Engineering, IFMBE proceedings, Vol. 45, p. 1015, Dubrovnik, Croatia, September 7-11, 2014.\*
- C. Boras, Y. David: “The Role of Key Professionals in Improving Patient Outcomes through Technology Life Cycle Management – Medical Physicists, Biomedical Engineers, Clinical Engineers”, the Second World Health Organization (WHO) Global Forum on Medical Devices, Geneva, Switzerland, Nov. 22-24, 2013\*.
- Y. David, C. Boras, F. Hosea: “Disaster Preparedness Tutorial for Healthcare Technology Managers”, the Second World Health Organization (WHO) Global Forum on Medical Devices, Geneva, Switzerland, Nov. 22-24, 2013\*.
- Y. David: “The Role of Safety and Quality throughout Medical Devices Life Cycle”, Clinical Engineering Advisory Council, Shanghai, China, Sept. 24, 2013. \*
- Y. David: “Regulation and Standards in Medical Device Management”, Clinical Engineering Advisory Council, Shanghai, China, Sept. 25, 2013.
- Y. David: “The BMET Role in Keeping Networking, Integration and Alarm Management Safe”, Colorado Association of BMETs, Annual Meeting Key note, Denver, Co. Aug. 17, 2013.
- Y. David, M. Castaneda: “Succession Strategy for Technology Managers”, ACCE Education Series, Webinar, March 14, 2013.
- R. Calderon, Y. David: “TRIAD Catheter System Engineering Delivery Solutions for Medical Applications”, IEEE/EMBS 1<sup>st</sup> Conference on Translational Engineering in Health & Medicine, Houston, Texas, USA, Nov. 2012.\*
- Y. David: “Technology Management Principles for Medical Equipment”, Clinical engineering certification workshop, Chinese Congress of Medical Engineering and Information Technology, Ningbo, China, November, 2012.
- Y. David: “Evolution of Clinical Engineering and Information Technology”, Chinese Congress of Medical Engineering and Information Technology, Ningbo, China, November 2012.
- Y. David: “The Changing Role of Clinical Engineering in Healthcare IT – Seizing the Opportunities”, North Texas Biomedical Association, Dallas, TX, October 2012.
- Y. David: “Clinical Engineering” chapter in *The Biomedical Engineering Handbook 4/e*, CRC Press/Taylor & Francis Group, LLC, California, USA, in print (projected 10/2014).
- Y. David: “Clinical Engineers and Clinical Outcomes”, ACCE/AAMI Clinical Engineering Symposium, AAMI Annual Conference, Charlotte, N.C, June 2, 2012.\*

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David, T. Clark: “National Clinical Alarms Survey; 5 Years Comparison of Issues, Improvements and Priorities”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.\*
- Y. David, W. Hyman, J. Wear: “Adverse Event Investigation of Medical Product”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.\*
- Y. David, T. Cooper, S. Eagles: “Risk Management of Medical Devices’ Network”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.\*
- Y. David: “Emergency Preparedness Plan – The Clinical Engineers’ Role”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.\*
- Y. David: “Healthcare Technology in the US – Adoption and Regulations”, The Trendlines Group/Ministry of Industry Trade & Labor workshop, Houston, TX, March 27, 2012.
- L. Cordisco, Y. David: “Preparing Biomed For the Future”, Horizon Supplement to Biomedical Instrumentation & Technology, AAMI, Fall 2011\*
- Y. David: “Role of Clinical Engineers in System Risk Management”, IEEE Galveston Bay Section & NASA Alumni League Seminar, Johnson Space Center, Houston, TX, Oct. 2011.
- T. Clark, T. Bauld, Y. David, et al: “2011 National Clinical Alarms Survey – Perceptions, Issues, Improvements, and Priorities of Healthcare Professionals” Healthcare Technology Foundation, AAMI, ACCE, National Alarm Summit, Washington, D.C., Oct. 2011\*
- Y. David, R. Calderon: "Percutaneous Closed-Loop Perfusion (PCP)", 2011 Innovation Conference and Showcase, Houston Technology Center, Houston, Texas, Sept. 2011.
- Y. David: "Medical Safety and Risk Control Assessment" , The 5th Clinical Engineering Certification Workshop, Huangshan, China, Sept. 22, 2011.\*
- Y. David: "Healthcare Technology Management - Convergence of CE-IT and Telecommunications", The 12th Annual Meeting of Medical Engineering Society of Chinese Medical Association and the 2011 Chinese Congress of Clinical Engineering & Digital Medicine, Haungshan, China, Sept. 23-24, 2011. \*
- Y. David: “Are Medical Devices Mobility and Security Antagonists?” Health Management Technology (HME), Issue 23, Thought Leaders Section, <http://www.healthmgttech.com/index.php/online-only-features/online-only-features/are-medical-devices-mobility-and-security-antagonists.html>, June 14, 2011.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David: "Healthcare Puts Tablets to the Test," InformationWeek Healthcare, [www.informationweek.com](http://www.informationweek.com), May 21, 2011.
- Y. David: "System Risk Control in Healthcare Delivery Organizations," Mobile Healthcare Technology Summit, University of Houston, Houston, Texas, May 5, 2011.
- Y. David, Z. Dan, W. Hyman, Z. Kun: "Clinical Engineering Development in China," Journal of Clinical Engineering, April/June 2011, pg 68-71.\*
- Y. David: "AAMI/IEC 80001-1 – Sharing the Burden: Collaborating to Keep Networks Safe, Secure and Effective," AAMI Webinar, April 7, 2011.
- Y. David: "Development of Medical Device Policies," Who Medical Device Technical Series, World Health Organization (WHO) Press, Geneva, Switzerland, March 5, 2011.\*
- Y. David: "Evolving Medical Technology: the New Role of Clinical Engineering," 11<sup>th</sup> National Congress of the Association of Italian Clinical Engineers, Torino, Italy, February 25, 2011.\*
- Y. David: "The Changing Role of Engineering in Healthcare IT: Seizing the Opportunities," Health Forum Web Seminar, February 7, 2011.
- T. Cooper, Y. David, S. Eagles: "Getting Started with IEC 80001, Essential Information for Healthcare Providers Managing Medical IT-Networks," Association for the Advancement of Medical Instrumentation (AAMI), Arlington, Virginia, 2011.\*
- Y. David: "Understanding & Benefiting form AAMI / IEC 80001-1, Essential Information for Networked Technology Suppliers," AAMI Webinar, January 19, 2011.
- Y. David: "Medical Equipment – Role and Responsibilities in NGO World," 5<sup>th</sup> Annual Med Surplus Network Conference, Houston, Texas, November 4, 2011.
- Y. David: "Event Investigation – How Did It Happen?" 2010 FBS Symposium Schedule, Florida Biomedical Society, Orlando, Florida, October 21-24, 2010. \*
- Y. David: "ISO 80001 – Challenges of Integrating Medical Device with Networks," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.\*
- Y. David: "Risk Management/Safety and Human Factors," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.\*

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David: "Introduction to Clinical Engineering Certification Process and Examination," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.\*
- Y. David: "Healthcare Technology Management," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.
- Y. David: "Clinical Engineering Certification Training," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.
- Y. David: "Professional Competency of Clinical Engineering," Proceeding of XII Mediterranean Conference on Medical and Biological engineering and Computing - Medicon 2010, IBMBE, Porto Carras, Greece, May 28, 2010.\*
- Y. David: "Benchmarking," Biomedical Advisory Council (BAC) Meeting, Tampa, Florida, May 24, 2010.
- L. Lloyd, Y. David, et.al.: "The Survival of the Smartest, This year's group of MDEA winners featured several devices with nifty data and software capabilities," Medical Design Excellence Awards, MD+DI (Medical Device and Diagnostic Industry), April 2010, pg 24-29.
- Y. David: "Planning the 1<sup>st</sup> Global Medical Device Forum," World Health Organization, Geneva, Switzerland, December 2009.
- Y. David: "Role of Clinical Engineering in International Project," Technology Management Group, World Health Organization, Rio de Janeiro, Brazil, November, 2009.\*
- Y. David: "Working Together – Sharing the Sand Box," Medical Device and IT Integration; Managing the Challenges of Convergence, ECRI Webinar, September 16, 2009.\*
- Y. David: "Reaching Higher, 10 Ways to Improve Device Safety", 2009 AAMI Meeting, Baltimore, Maryland, June 6-8, 2009.
- Y. David: "Practical Uniform Terminology for Medical Device Problems," 2009 AAMI Meeting, Baltimore, Maryland, June 6-8, 2009.\*
- Y. David: "How Do You Improve Patient Safety" and "Improving Communication ... One Term at a Time," Tech World, AAMI News, June 2009, pg 11-13.\*
- M. Vockley, Y. David, B. Patail, L. Fennigkoh, R. Schrenker, A. Currie, C. Campbell: "Reaching Higher ... 10 Ways to Improve Device Safety," Biomedical Instrumentation Technology (BI&T), January/February 2009, pg. 20-26.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- M.F. Dulay, D.K. Murphy, P. Sun, Y. David, M.S. Beauchamp, D. Yoshor: "Computer-controlled Electrical Stimulation for Quantitative Mapping of Human Cortical Function", *Journal of Neurosurgery*, Vol. 110, June 2009, pp.1300-1303, American Assoc. of Neurosurgeons.\*
- Y. David: "Trends in Clinical Engineering Practices," *Revista Ingenieria Biomedica*, Antioquia School of Engineering – CES University, Medellín, Colombia, biannual publication Volume 2, Issue 4, July-December 2008, <http://revistabme.eia.edu.co/index2.htm>.\*
- Y. David: "Yadin David Launches Biomedical Engineering Consultants," *Journal of Clinical Engineering*, Vol. 33, No. 4, October/December 2008, pg 165.
- Y. David, M. Baretich, W. Hyman, W. Morse, J. Wear: "Excellence in Clinical Engineering Leadership and the Inaugural AHTF ExCEL Award," *Journal of Clinical Engineering*, Vol. 33, No. 4, October/December 2008, pg 201-205.\*
- Y. David: "The Future of Clinical Engineering – Are You Ready?" 2008 Chinese Congress of Clinical engineering & Digital Medicine and the 9<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, November 6-8, 2008.
- Y. David: "Healthcare Technology Management," Introduction to CE Certification Training, 2008 Chinese Congress of Clinical engineering & Digital Medicine and the 9<sup>th</sup> Annual Meeting of Medical Engineering Society of Chinese Medical Association, November 6-8, 2008.
- Y. David: "Users' and Support Team's Role in Integrating and Administering Bedside Communication Project," GE Healthcare User Summit, Washington, DC. August 18-21, 2008.
- Y. David: "Embarrassing Technology into Healthcare Practices," School of Health Sciences Tec de Monterrey University, Monterrey, Mexico, August 2, 2008.
- Y. David, F. Jaramillo, R. Stiefel: "Educational Challenges in Clinical Engineering Profession: A survey," *Journal of Clinical Engineering*, Vol. 33, No. 3, July/Sept. 2008, pgs. 154-158.
- Y. David: "AAMI Annual Meeting Highlights and Technology Trends," South East Texas Clinical Engineering Society, Houston, Texas, June 22, 2008.
- Y. David: "Medical Errors Mitigation Using Technical Tools," GE Biomedical Advisory Counsel, San Jose, California, June 2, 2008.
- Y. David: "Impacting Medical Errors – TeleHealth Case Study," 2008 ACCE Clinical Engineering Symposium: Capturing the Heart and Mind of the Clinician – The Art and Science of Human Factors for Medical Systems, San Jose, California, May 31, 2008.
- Y. David: "Collaborative Innovation at the Bedside: A Case Study," Medical Device Interoperability: From Abstract Concepts to Clinical Improvement, 2008 AAMI annual Meeting, San Jose, California, May 31, 2008.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- J. Browning, D. Walding, J. Klasen, Y. David: "Vibration Issues of Neonatal Incubators During In-Hospital Transport," *Journal of Clinical Engineering*, Vol. 33, No. 2, April/June 2008, pgs. 74-77.
- Y. David, et al: Chapters "Telehealth: I Can See the Highway, But Where Is the Ramp?," & "Emergency Preparedness Plan – the Role of Clinical Engineers and BMETs," and " A Practicum for Biomedical Technology & Management Issues, Kendall-Hunt Publishing, June 2008.
- D. Korniewicz, T. Clark, and Y. David: "A National Online Survey on the Effectiveness of Clinical Alarms," *American Journal of Critical Care*, Vol 17, No. 1, January 2008, pgs. 36-41.\*
- Y. David, T. Clark, and K Weil: "Clinical Alarm Systems and Their Management," Webcast, MedSun News - Medical Product Safety Network, January 2008, pg. 1.
- Y. David, et al.: Clinical Reviewer of "Evaluations and Guidance Articles," *Health Devices*, ECRI, Dec 2007, pg 403.
- M. Howell, and Y. David: "Integrated Platform for Life Safety & Tracking," "Understanding & Managing Clinical Alarms," and "Technology Adoption Methodology: Plan, Do, Study & Act Cycles", *Technology - A Means to Improve the Nurses' Work Environment*, The 4th Annual Interactive Learning Exchange - Go for the Gold, December, 2007.\*
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- Y. David, T. Pagel, M. Howell, and L. Sessions: "IPLST, Integrated Platform for Life Safety & Tracking," Executive Council, Texas Children's Hospital, Houston, Texas, Oct. 3, 2007.
- Y. David: "Telemedicine: I Can See the Highway, but Where is the Ramp?," "Clinical Engineering and Certification," and "Telemedicine: Taking the Distance Out of Caring," SABI 2007 XVI Argentina BioEngineering Congress, V Clinical Engineering, San Juan, Argentina, September 26-28, 2007.
- Y. David: "Playing in the Digital Sandbox, Biomed and IT Share Space," Pan Europe Biomedical Advisory Council (B A C), Venice, Italy, September 12-14, 2007.
- Y. David, D. Finn, P. Rogers, M. Howell, T. Pagel, and L. Sessions: "Failing to Succeed," 2007 Healthcare Quality Colloquium, [www.QualityColloquium.com](http://www.QualityColloquium.com), Harvard University, Cambridge, Massachusetts, August 19-22, 2007.
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Y. David: "Biomedical Technologies Applications in Global Healthcare Houston & Israel Collaboration," Business Opportunities Israel: A Hot Bed of Innovation, 55<sup>th</sup> Annual Consular Forum Conference, Houston, Texas, October 27, 2006.

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Y. David: "Can We Make Safe Wireless Connections?" Wireless and Patient Connectivity Workshop, San Francisco, California, February 22, 2006.

Y. David: "Managing Tomorrow's Healthcare Technology – Approaching the Medical Center," Medical Products Customer Strategy Summit 2006, Thought Leadership Summit 2006, Marina de Rey, California, January 17-18, 2006.

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Y. David: "Clinical Engineering, Global technology & Patient Safety," and "Texas Medical Center and Texas Children's Hospital Biomedical Engineering Department," - Patient Safety Summit: More than Words: Developing Solutions Internationally, London, United Kingdom, November 29, 2005.

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- Y. David: "Advanced Development of Clinical Engineering," "Cases of Clinical Engineering Program Measurements and Standards," "Safe Application and Quality Control of Medical Instruments," and "Wireless and Radio Frequency Identification Tags (RFID) Used for Assets Control", 4<sup>th</sup> International Clinical Engineering Symposium, Beijing, China, September 6-7, 2005.
- Y. David: "Medical Technology Management: From Planning to Application," "Risk Measurement Tool for Managing Medical Technology," 27<sup>th</sup> Annual International Conference of the IEEE Engineering In Medicine and Biology Society (EMBS), Shanghai, China, September 1-4, 2005.
- Y. David: "Healthcare Technology Management (HTM)", "Technology Planning and Assessment – Case Studies", "Medical Devices, Information Systems and Telemedicine," "Technology Planning", "Refurbished and Donated Medical Equipment," "Medical Devices on the Network and Safety Systems", "Telemedicine: I can See the Highway, but Where is the Ramp?", "Two Case Studies: Planning", and "ElectroMagnetic Compatibility in Healthcare Facilities", Health Technology Management & Clinical Engineering Workshop, Cartagena, Colombia, July 11-15, 2005.
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- Y. David: "HIPAA Compliance for Biomedical Technology: Meeting the April 2005 Deadline," ECRI Audio Conference, Beijing, China, November 10, 2004.
- Y. David: "Technology and Supplier Evaluation in Health Care," 3<sup>rd</sup> International Clinical Engineering Symposium, Beijing, China, November 10, 2004.
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- Y. David: "The Role of Performance Evaluation in Clinical Engineering Career," IV Simposio Internacional de Engenharia Clinica do Hospital Israelita Albert Einstein, Sao Paulo, Brazil, October 15-16, 2004.
- Y. David: "Assets Tracking System – Their Application for Improving Clinical Engineering Program," IV Simposio Internacional de Engenharia Clinica do Hospital Israelita Albert Einstein, Sao Paulo, Brazil, October 15, 2004.

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- Y. David: "Electromagnetic Compatibility – Clinical (EMC) Study Report," Solutions for Healthcare, Sprint Wireless Symposium, Dallas, Texas, July 15, 2004.
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- Y. David: "Clinical Engineering in the US – Education and Internships," Technology Management & Clinical Engineering Workshop, San Jose, Costa Rica, May 17-21, 2004.
- Y. David: "HealthCare Technology Management," Technology Management & Clinical Engineering Workshop, San Jose, Costa Rica, May 17-21, 2004.
- Y. David: "Benchmarking Who Needs It?," 2<sup>nd</sup> International Clinical Engineering Fellowship, Shanghai, China, November 8-14, 2003.
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- Y. David: "Best Practices in Clinical Engineering," 25<sup>th</sup> Anniversary Hospital San José – Tec De Monterrey, Monterey, N.L., Mexico, October 3, 2003.
- Y. David: "Biomedical Engineering and Clinical Medicine – Case Study in Telemedicine," 25<sup>th</sup> Anniversary Hospital San José Tec De Monterrey, Monterey, N.L., Mexico, Oct. 3, 2003.
- Y. David, and E. Sloane: Co-Chairmen, "Clinical Engineering Practices Review Pre-Conference Workshop," 25<sup>th</sup> Annual International Conference of IEEE Engineering in Medicine and Biology Society, Cancun, Mexico, September 17-21, 2003.
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- Y. David: "Overview of EMI in Healthcare Facilities," Med Sun/FDA National Teleconference Management of Electromagnetic Compatibility in Health Care Facilities, Sept. 9, 2003.
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- Y. David: "The Perspective of Telemedicine," Community Telemedicine Symposium, Texas A & M University, College Station, Texas, January 2000.
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- Y. David, J.A. Coss-Bu, D. Walding, R.C. Sachdeva, W.J. Klish, and L.S. Jefferson: "Lung Injury (L1) and Dead Space Ventilation (DSV) In Critically Ill Children," American Thoracic Society, 1999 International Conference, San Diego, California, April 1999.
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- Y. David: "Medical Telemetry and Digital Television Interference Issues," Federal Communication Commission (FCC), Food and Drug Administration (FDA), American Hospital Association (AHA), and American Society of Healthcare Engineering (ASHE), Washington, D.C., November 1998.
- Y. David: "How to Develop International Telemedicine Program," Child Health Corporation of America (CHCA), Tampa, Florida, October 1998.
- Y. David: "Is International Telemedicine Different from Domestic?," Telemedicine: Opportunities For Rural America, Conference Center Good Samaritan Foundation, Kearney, Nebraska, and October 1998.
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- Y. David, J.A. Coss-Bu, D. Walding, W.J. Klish, and L.S. Jefferson: "Substrate Utilization in Critically Ill Children," Eleventh Annual Pediatric Colloquium, Chicago, Illinois, September 1998.
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Y. David, D. Rohe: "Productivity in a Comprehensive Clinical Engineering Program", IEEE/Engineering in Medicine and Biology Society Annual Meeting, Dallas, Texas, 1986.

Y. David: "Clinical Engineering in a Large Medical Center", Proceedings of the U.S. - Japan Symposium on Biomedical Engineering, Baltimore, Maryland, 1986.

Y. David, D. Rohe: "Clinical Engineering Program Productivity and Measurements", Journal of Clinical Engineering, Vol. 11, No. 6, Pg. 435-443, November-December 1986. \*

Y. David: "Management Tools for Clinical Engineering Departments", Proceeding of the Eighth Annual Conference of the Engineering in Medicine and Biology Society, Fort Worth, Texas, November 1986.

Y. David, R.A. Gutcheck, D. Cotton, and P.V. Roby: "Continuous Biochemical Monitoring Utilizing Solid State Spectrophotometry", (Abstract), The 3rd International Symposium on Continuous Transcutaneous Monitoring, Zurich, Switzerland, October 1986.

Y. David: "The Medical Instrument Life Cycle Strategy for Clinical Engineers", Engineering in Medicine and Biology Magazine, Vol. 4, No. 2, June 1985. \*

Y. David, J. Truett: "The Story of Diagnosis Related Groups", Engineering in Medicine and Biology Magazine, Vol. 4, No. 2, June 1985. \*

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

Y. David, D.Z. Myerberg, et al: "The Synchronometer: A Prototype Device to Measure Infant/Ventilator Synchrony", IEEE Engineering In Medicine and Biology Magazine, Vol. 4, No. 1, March 1985. \*

Y. David: "The Application of Biomedical Engineering Technologies to the Health Care Delivery System Facilities", University of Houston, College of Engineering, The Biomedical Engineering Program, Houston, Texas.

Y. David, D.Z. Myerberg, et al: "The Synchronometer: A Prototype Device to Measure Infant/Respiration Synchrony", Proceeding of the 14th International Conference on Medical and Biological Engineering and The 7th International Conference on Medical Physics, Finland, 1985.

Y. David, R.A. Gutcheck, et al: "Continuous Biochemical Monitoring Utilizing Solid State Spectrophotometry", Proceeding of the 14th International Conference on Medical and Biological Engineering and The 7th International Conference on Medical Physics, Finland, 1985.

Y. David, J. Adams, H. Hochberg, and C.M. Koliner: "Percutaneous pH Measurements", Medical Technology For the Neonate, Technology Assessment Report, AAMI, TAR No. 9-84, September 1984. \*

Y. David: "Performance Assurance of Home-Care Technology", Home Care '84 Conference, Chicago, Illinois, 1984.

Y. David, et al: "G.T.I.I. - A Measurement of Synchrony of Infant Ventilator", The 6th Annual Conference on Frontiers of Engineering and Computing in Health Care, 1984.

Y. David, R. Bettinger: "Characteristics of Transcutaneous Electrical Nerve Stimulation Used Clinically for Pain Control", 2nd Annual Conference on Biomedical Engineering Research - University of Houston, Houston, Texas, 1984.

Y. David: "Apnea Monitoring in Non-Hospital Environment", The 37th Annual Conference on Engineering in Medicine and Biology A.C.E.M.B. Meeting, September 1984

Y. David, J. Truett: "Diagnosis-Related-Groups and Clinical Engineering", 6th Annual Conference on Frontiers of Engineering and Computing in Health Care, 1984.

Y. David: "The Utilization of TENS in U.S. Hospital", Physical Therapy Meeting, Tel-Aviv, Israel, 1984.

Y. David: "Source of Input", The 7th Annual Conference of the Greater Houston Hospitals Management Systems Society, 1984.

Y. David, R. Jennings: "The Life Cycle of Medical Devices - Issues of Aging and Obsolescence" Moderators of Round Table Discussion - AAMI The 19th Annual Meeting, 1984.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David, R. Eller, and M. Jopling: "Quality Assurance of Anesthetic Vaporizers", The International Congress on Medical Instrumentation, Holland, May 1984.
- Y. David, M. Grafton: "Equipment Life Cycle Strategy in the Biomedical Department", The International Congress on Medical Instrumentation, The Netherlands, May 1984.
- D.Z. Myerberg, Y. David, et al: "A New Non-Invasive Device which Continuously Gauges An Infant's Synchrony and Chest Expansion Achieved With Mechanical Ventilation", 2nd International Conference on Fetal and NeoNatal Physiological Measurements, Oxford, England, April 1984.
- Y. David, M. Gullikson, and J. Weimert: "Trends in Patient Monitoring Technology", The 19th AAMI Annual Meeting, April 1984.
- Y. David, S.K. Sharma, and M. Gullikson: "Equipment Life Cycle Strategy in The Biomedical Department", Engineering in Medicine and Biology Annual Conference, 1983.
- Y. David, R. Bettinger: "Characteristics of TENS Used Clinically for Pain Control", The 2nd Southern Biomedical Engineering, 1983.
- Y. David, J. Adams, and H. Hochberg: "Percutaneous pH Measurements", Medical Technology For the Neonate, Technology Assessment Conference - AAMI, November 1983.
- Y. David, W. Scholz: "New Concepts in Patient Monitoring System", The 2nd Southern Biomedical Engineering Conference, 1983.
- Y. David, R. Bettinger: "Transcutaneous Electrical Nerve Stimulators Characteristics", The Assc. for the Advancement of Medical Instrumentation, The 17th Annual Meeting, 1982.
- Y. David, M. Jopling, R. Eller: "Anesthetic Vaporizers: Performance Assurance", Pennsylvania's State Society of Anesthesiologists, Annual Meeting, 1982.
- Y. David, C. Koliner: "The Application of Tissue pH and Transcutaneous P<sub>02</sub> Measurements in ICU", World Congress on Medical Physics and The 13th International Conference on Medical and Biological Engineering, Germany, 1982.
- Y. David: "Biomedical Engineering and Future Trends in Medical Instrumentation", Monongahela County Medical Society, 1982.
- Y. David, C. Koliner: "Use of Cutaneous Monitors in Critically Ill Patients", Pulmonary Ground Round of Western Pennsylvania, Pittsburgh, Pennsylvania, 1982.
- L. Pyles, W. Neal, Y. David: "Skin/Arterial Oxygenation Ratio as an Index of Peripheral Perfusion Following Cardiac Surgery in Children", The 23rd National Medical Student Research Forum, 1982.

\* Peer Review Paper



**PUBLICATIONS AND PRESENTATIONS (CONT.):**

- Y. David, C. Koliner: "Tissue to Blood pH and Transcutaneous to Blood P<sub>02</sub> Gradients in Critically Ill Patients", The New York State Society of Anesthesiologists, 1981.
- J. Gutierrez, Y. David: "Correlation of Transcutaneous Oxygen Tension with Arterial Oxygen Tension During Different Cardiac Output States, Case Reports", International Anesthesia Research Society, 1981.
- F. Zavisca, S. Woelfel, and Y. David: "Amnesic Effects of Oral Clinical Doses of Benzodiazepines", FASEB Federation of American Society for Experimental Biology, 1981.
- Y. David, C. Koliner, and W. Neal: "Application of Cutaneous P<sub>02</sub> and Tissue pH Measurements in the Perioperative Period", Association for the Advancement of Medical Instrumentation - The 16th Annual Meeting, 1981.
- Y. David, C. Koliner, W. Neal: "Perfusion Index Using Transcutaneous PO<sub>2</sub> in Post Cardiac Surgery", Engineering in Medicine and Biology Conference, Annual Meeting, 1981.
- R. Kennedy, H. DeSousa, Y. David: "Kinetics of Local Anesthetic Drugs in the Maternal/Fetal Unit", Society of Obstetrical Anesthesia Peritoneal, Annual Meeting, 1981.
- Y. David, W. Neal, R. Knapp: "Transcutaneous PO<sub>2</sub> as a Perfusion Index in Post Cardiac Surgery" Anesthesia Update, West Virginia State Anesthesiologists Society Annual Meeting, 1980.
- P. Forte, W. Neal, Y. David: "T<sub>c</sub>P<sub>02</sub> Monitoring as an Index of Peripheral Perfusion Following Cardiac Surgery", W.V.U. School of Medicine Student Research Convocation, 1980.
- Y. David, J. Gutierrez: "Environmental Hazards and Pollution in Operating Rooms", Association for the Advancement of Medical Instrumentation, The 14th Annual Meeting, 1979.
- J. Gutierrez, M. Howie, Y. David: "Correlation of Transcutaneous Oxygen Tension with Arterial Oxygen Tension During Different Cardiac Output States: A Case Report", American Academy of Pediatrics, Annual Meeting, 1979.
- Y. David: "Occupational Safety in the Operating Theater", International Conference on Medical Physics and the XII International Conference on Medical and Biological Engineering, Israel, 1979.
- F. Zavisca, S. Woelfel, Y. David, et al: "The Effects of Benzodiazepines - Diazepam, Flurazepam, and Alprazolam on Cardiovascular and Psychological Function in Healthy Medical Students", Post Graduate Assembly New York State Society of Anesthesiologist, N.Y.S.S., 1979.
- Y. David, J. Gutierrez: "Anesthesia as Environmental Hazard", West Virginia Society of Anesthesiologists Annual Update, 1978.

\* Peer Review Paper

**PUBLICATIONS AND PRESENTATIONS (CONT.):**

D. Smith, J. Adams, and Y. David: "A Comparison of Analgesic Properties of Morphine and Ketamine in the Rat", American Society of Anesthesiologists, A.S.A., Annual Meeting, 1978.

W. Hess, E. Boyd, and Y. David: "Cardiopulmonary and Amnesic Effects of Alprazolam - A New Benzodiazepine Derivative", American Society of Anesthesiologists, A.S.A., 1977.

Y. David: "Environmental Hazards to OR Personnel" - Association of Operating Room Nurses West Virginia - A.O.R.N. Workshop, 1977.

Y. David: "Electrosurgical Safety in the OR" - A.O.R.N. West Virginia Workshop, 1977.

**PROFESSIONAL ACTIVITIES:**

World Health Organization (WHO) – Member of the Experts Groups in Priority Medical Devices for Cancer Management Project – the Radiotherapy Imaging expert group, Geneva, Switzerland, 2015 - present

Orsan Medical – Review 510(k) submission plan and proposed supplement testing to establish support of patient safety statements, 2015.

Track Chairman, "Safety and Human Factors Engineering for Medical Devices and Systems", Medicon 2013, the 13<sup>th</sup> Mediterranean Conference on Medical and Biological Engineering and Computing, Seville, Spain, Sept 25-28, 2013.

International Program Review Committee, Member, Medicon 2013, the 13<sup>th</sup> Mediterranean Conference on Medical and Biological Engineering and Computing, Seville, Spain, Sept. 25-28, 2013.

Theme Co-Chairman, "Clinical Engineering", World Congress on Medical Physics and Biomedical Engineering, Beijing, China, May 26-30, 2012.

Board Member, National Science Foundation, Body of Knowledge Advisory, 2011 – 2012.

Medical Design Excellence Awards, Judge, Los Angeles, California, February 2004 – 2010.

NFPA Laser Safety Committee, Chairman, Boston, Massachusetts, January 1998 - 2009.

ACCE HealthCare Technology Foundation, President, (501C3) - 2002.

HealthCare Technology Foundation, President Emeritus, (501C3) - 2010.

NFPA 99 Health Care Facilities - Gas Delivery Equipment (HEA-GAS) Committee, Chair, July 2002.

Canopy Edge – Design and lead engineering and animal testing in support for 510(K) submission 1999 – 2016.

**PROFESSIONAL ACTIVITIES (CONT.):**

BegaMed – Laparoscopic surgical suture instrument commercialization – preparation for 510(k) 2000.

Carmel Biosensors, Inc. – Fetal monitoring system assessment and review of regulatory documents submission 1999.

Committee Member - AAMI/ES, Electrical Safety Committee 2001.  
- AAMI/EM, Electromagnetic Compatibility Committee 2000.

Presented on medical devices and supplies adverse event investigation methodology at the Patient Safety Executive Group in Houston (2005) and FDA Medsun Orientation meeting, San Diego, 2007.

Organized seminar and presented on Safe application and quality control of medical devices at the international clinical engineering symposium in Beijing, China, 2005.

Presented Medical Errors Mitigation Using Technical Tools at the GE Biomedical Advisory Council meeting San Jose, CA, 2008.

Participated in clinical study of Electrical stimulation for mapping human cortical function, results were published at Journal of Neurosurgery, June 2009, American Assoc. of Neurosurgeons.

Contributed to the guidelines on requirements for refurbishing and donating of medical equipment (ACCE. And WHO, and Columbia 2005)

Planned and conducted non-clinical performance studies of modified medical device (Neonatal transport) in cooperation with manufacturer and NASA. Study was published in Biomedical Engineering journal. (200x)

Participated in clinical study Correlation of Near Infrared Spectroscopy Cerebral Blood Flow Estimations and Microsphere Quantitations in Newborn Piglets, results published in Biology of the Neonate, Krager AG, Basal, 1998.

Participated in clinical trial of high frequency jet ventilator in pediatrics, published in Pediatric Pulmonary Proceedings of the 6th Annual Conference on High Frequency Ventilation of Infants, Snowbird, Utah, 1989.

Participated in clinical study of new balloon angioplasty pressure monitor in cardiac procedures (1988)

Participated in clinical trials on the performance of shared fluid source for use in multiple infusion pumps procedures (1985)

Participated in clinical study of Rectal-Scalp temperature predictor of brain injuries in children (1999) published in Pediatric Neurology.

Participated in clinical studies for validating in vitro mass spectrometer metabolic monitoring system for lung work in pediatric patients (1997-2003) published in American Journal of Respiratory and Critical care Medicine (1997)

**PROFESSIONAL ACTIVITIES (CONT.):**

Board of Directors, Orbis International, New York, NY, August 1999.

Lecturer, "Problems With Medical Telemetry and Telemedicine", Healthtec '99, Baltimore, Maryland, April 2000.

Member, Orbis International Global Grant Applications, New York City and Seattle, Washington, July 1999.

Representative, in the "4<sup>th</sup> International Conference on the Medical Aspects of Telemedicine," held in conjunction with US-Israel Science and Technology Symposium on "Telemedicine Frontiers Toward the 21<sup>st</sup>. Century, Jerusalem, Israel, June 1999.

Representative to the First Meeting of 1999 TeleHealth Committee of the American Society of HealthCare Engineering (ASHE), Seattle, Washington, February 5, 1999.

Panel Member, AIBS Peer Review Panel on the Defense Women's Health (DWH) Research Programs. The American Institute of Biological Sciences (AIBS) and the United States Army Research and Material Command (USAMRMC), Sterling, Virginia, January 25 - 26, 1999.

Representative, TCH International at Caracas and Maracaibo, Venezuela negotiations of Telemedicine Projects, 1999.

Workshop Chairman, "Real Telemedicine Applications and Issues", Sponsored by the Annual Conference and Exposition for the Selection, Integration, Management and Support of Healthcare Technology, in conjunction with ASHE's National Conference on Medical Technology Management, Nashville, Tennessee, May 1998.

Program Chairman, "Electromagnetic Interferences Around Medical Devices", taped for television broadcast by HITN, Washington, D.C., May 1998.

Session Chair, "Electromagnetic Interference - International Issues," AAMI 33rd Annual Meeting, Philadelphia, Pennsylvania, May 1998.

Representative, TCH International and the Greater Houston Partnership, representing Texas Children's Hospital as a member of the business development mission, Caracas, Venezuela, March 1998.

Guest Speaker, Exploring Opportunities for International Telemedicine Links, Center for Telemedicine Law (CTL), at the White House, Washington, D.C., August 1997.

Faculty Member, Meet the Experts Session on "Electromagnetic Compatibility: Facility Policy Procedures and Education," AAMI/FDA, AAMI Annual Meeting, Washington, D.C., June 1997.

Roundtable Moderator, "Telemedicine and PACS: What's Ahead?" AAMI Annual Meeting, Washington, D.C., June 1997.

**PROFESSIONAL ACTIVITIES (CONT.):**

Track Chairman, "ElectroMagnetic Interference in Medical Devices", AAMI Annual Meeting, Washington, D.C., June 1997.

Track Chairman, "ElectroMagnetic Interference in Medical Devices", AAMI Annual Meeting, Philadelphia, Pennsylvania, June 1996.

Track Chairman, "Telemedicine", SPIE, Philadelphia, Pennsylvania, October 1995.

Track Chairman, "Critical Care Monitoring and Telecommunications for Health Care", 17th Annual International Conference of the IEEE Engineering in Medicine and Biology

Society (IEEE/EMBS) and 21st Canadian Medical and Biological Engineering Conference, Montreal, Canada, September 1995.

Track Co-Chair, "Electromagnetic Compatibility", Association for the Advancement of Medical Instrumentation (AAMI), Anaheim, California, May 1995.

Track Chairman, "Critical Care Monitoring", 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Baltimore, Maryland, November 1994.

Course Director, "Evaluating Medical Technology: The Hospital Perspective", AAMI Mid-year Meeting and Exposition, Bellevue, Washington, October 1993.

Chairman, Boston Organizing Committee, Responsible for Developing and Implementing 4 weeks of Clinical Engineering training for 40 Engineers from the former Soviet Union Republics, Central and South America, Boston, Maine, May/June 1993.

Session Chairman, "Clinical Engineering in the Hospital Environment", IEEE/EMBS Annual Meeting, Orlando, Florida, November 1991.

Session Chairman, "Monitors and Instrumentation in Critical Care", IEEE/EMBS Annual Meeting, Orlando, Florida, November 1991.

Session Co-Chairman, "Clinical Engineering Role", World Congress on Medical Physics and Biomedical Engineering, Kyoto, Japan, July 1991.

Course Director, "Towards Excellence: Critical Information for Clinical Engineering Managers", The Canadian Medical and Biological Engineering Society, Banff, Alberta, May 1991.

Course Director, "Towards Excellence: Critical Information for Hospital Clinical Engineering Managers", AAMI 25th Annual Meeting, Anaheim, California, May 1990.

Roundtable Moderator, "National Clinical Engineering Society - One Year Later", AAMI 25th Annual Meeting, Anaheim, California, May 1990.

Chairman, Post Conference Symposia - 6th Annual Conference of the International Society for Technology Assessment in Health Care, Houston, Texas, May 1990.

**PROFESSIONAL ACTIVITIES (CONT.):**

Chairman, IEEE/EMBS Clinical Engineering Committee, 1990.

Chairman, IEEE/EMBS Ad Hoc Clinical Engineering Committee, 1988-1989.

Chairman, The Clinical Engineering Track, IEEE/EMBS 11th Annual International Conference, Seattle, Washington, November 1989.

Symposium Chairman, "The Role of the Engineer in the Healthcare System," IEEE/EMBS 11th Annual International Conference, Seattle, Washington, November 1989.

Roundtable Chairman, "National Clinical Engineering Society?," AAMI 24th Annual Meeting, St. Louis, Missouri, May 1989.

Chairman, The Clinical Engineering Track, IEEE/EMBS 10th Annual Conference, New Orleans, Louisiana, November 4-7, 1988.

Session Chairman, Systems and Instruments for Clinical Assessment, IEEE/EMBS 10th Annual Conference, New Orleans, Louisiana, November 4-7, 1988.

Scientific Program Chairman: Clinical Engineering (13 sessions) in the World Congress on Medical Physics and Biomedical Engineering, San Antonio, Texas, August 7-12, 1988.

The 6th Biomedical Engineering Research in Houston Conference - Program Steering Committee, Houston, Texas, 1988.

Session Chairman, "Ethical Responsibilities of the Clinical Engineer", IEEE/Health Care Engineering Policy Committee Symposia: Ethical and Economic Issues in Biomedical Engineering Technology and Technological Advances in Models for Biomedical Research - Boston, Massachusetts, November 13-14, 1987.

Session Co-Chairman, Clinical Engineering, The VII Nordic Medical and Biological Engineering, Trondheim, Norway, 1987.

Chairman, The Fourth Annual Clinical Engineering Symposium and the AAMI Regional Meeting and Exhibit Program, 1987.

Round Table Discussion Moderator - "Clinical Engineering Policy - Government and Industry Interface", IEEE/Engineering in Medicine and Biology, 8th Annual Conference, November 1986.

Chairman, The Third Annual Clinical Engineering Symposium and the AAMI Regional Meeting and Exhibit Program, 1985.

Chairman, The Second Annual Clinical Engineering Symposium, Houston, Texas, 1984.

Conduct: Medical Residents Lecture Series - Physics and Electricity for the Anesthesiologist. The University of Texas Health Science Center at Houston, Department of Anesthesiology, Houston, Texas, November 1984.

**PROFESSIONAL ACTIVITIES (CONT. ):**

Round Table Discussion Moderator - "The Life Cycle of Medical Devices: Issues of Aging & Obsolescence", The 19th AAMI Annual Meeting, April 1984.

Lecturer, "Clinical Engineering: Responsibilities and Opportunities", Association of Bioengineering Students, Texas A & M University, College Station, Texas, April 1984.

Session Chairman, Clinical Application - 2nd Annual Conference on Biomedical Engineering Research, University of Houston, Houston, Texas, February 1984.

Founder and Program Chairman, The Annual Clinical Engineering Symposium, Houston, Texas, 1983.

Scientific Director, Pain Management Consultants, Morgantown, West Virginia, 1979-1983.

Conduct: Basic Science Series - Electricity, Physics, and Instrumentation for Anesthesiology Residents. West Virginia University Medical School, Morgantown, West Virginia, 1976-1982.

Session Chairman, "Application of Electrical Nerve Stimulation for Clinical Pain Control", AAMI 17th Annual Meeting, May 1982.

Adviser (With W. A. Neal, M.D.) The W.V.U. Medical Student Cardiology Fellowship. Every year the work has been selected for presentation at the Van Liere Medical Student Research Paper Competition, West Virginia University Medical Center, Morgantown, West Virginia, 1979-1982.

Advisor, Anesthesia Biomedical Engineering Summer Preceptorship, West Virginia University Medical School, Morgantown, West Virginia, 1979-1982.

Appears In:

Who's Who in International Scientist of the Year - 2002-2003.

Who's Who in Medicine and Healthcare, 2nd Edition - 1998.

Who's Who in the World, 16th Edition - 1997.

Who's Who in America, 53rd Edition - 1997.

Who's Who in Science and Engineering Registry, 4th Edition - 1997.

Who's Who in the South and Southwest 17th Edition 1980-1995.

Who's Who Registry - 1994-1995.

Men of Achievement - 8th edition, 1981.

Biomedical Technology Management - Profile Interview, July/August 1994.

Who's Who in the Frontiers of Science and Technology 2nd Edition.

The Directory of Distinguished Americans - 1st edition, 1981.

**GRANTS AND RESEARCH:**

Texas Infrastructure Fund- Implementation of Pediatric Telemedicine Program – Dr. L. Jefferson (P.I.) – (\$300,000.00), March 2000.

Understanding and Preventing Neonatal Brain Damage Consultant for Dr. Jan Goddard Finegold (P.I.) Department of Health & Human Services Grant (\$1.63M), April 1993.

Clinical Evaluation of Fiber optic pH Monitoring for Intrapartum Fetal Monitoring - Co-Investigator with M.G. Dodson, M.D., and D. Cotton, M.D., Baylor College of Medicine Dept OB/GYN, Houston, Texas, 1985.

Clinical Evaluation of Tissue pH Monitoring for Intrapartum Fetal Monitoring - Co-Investigator with E. Abouleish, M.D., and F. Zavisca, M.D. U of T Medical School, Houston, Texas, 1984.

The Clinical Investigation of New Tissue pH System During the Intra and Peri-Operatively Periods, Co-Investigator, Charles Koliner, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1982.

The Pharmacological Effects of Diazepam and Flurazepam on the Cardiovascular and Respiratory Systems in Healthy Volunteers - with Richard B. Knapp, M.D., W. Virginia University Medical School, Morgantown, West Virginia, 1981.

Transcutaneous PO<sub>2</sub> Monitoring in the Post Operative Cardiac Surgery Patients (Children) with W. Neal, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1980.

The Effect of Inhalation Anesthetic Agents on Transcutaneous Oxygen Tension Indicator - with J. Gutierrez, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1980.

Non-Invasive Recording of Fetal EEG - with D. Remen, M.D., West Virginia University Medical Center, Institutional Research Grant (\$2,000.00), 1977.